

WEST Search History

DATE: Monday, November 21, 2005

Hide? Set Name Query Hit Count

DB=PGPB; PLUR=YES; OP=ADJ

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| <input type="checkbox"/> | L1 | (thieno and pyridin?).clm. | 59 |

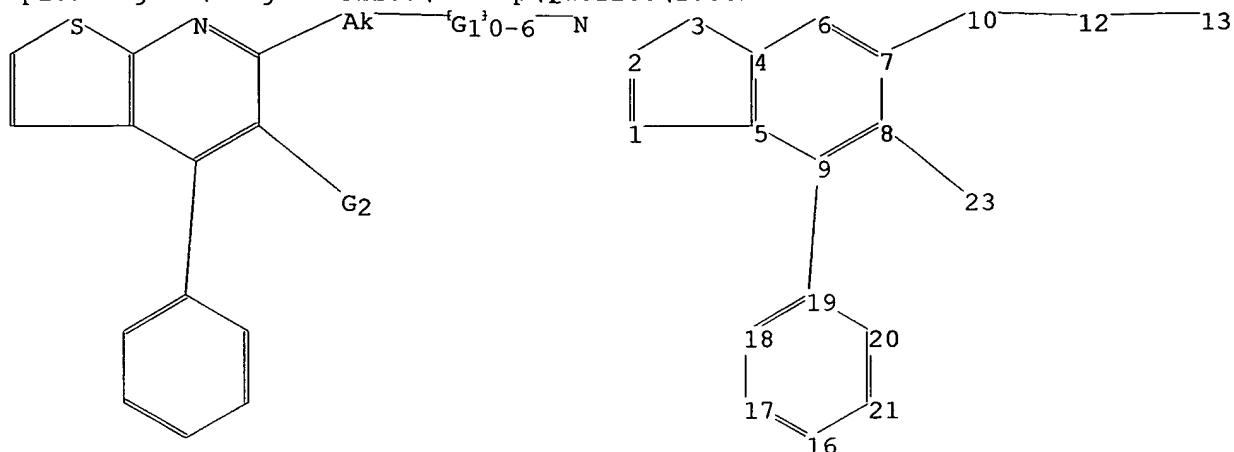
END OF SEARCH HISTORY

* * * * * * * * * * * * * Welcome to STN International * * * * * * * * *
 * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:28:03 ON 21 NOV 2005

=> file reg

Uploading C:\Program Files\Stnexp\Queries\10662165.str



chain nodes :

10 12 13 23

ring nodes :

1 2 3 4 5 6 7 8 9 16 17 18 19 20 21

chain bonds :

7-10 8-23 9-19 10-12 12-13

ring bonds :

1-2 1-5 2-3 3-4 4-5 4-6 5-9 6-7 7-8 8-9 16-17 16-21 17-18 18-19 19-20
20-21

exact/norm bonds :

1-2 1-5 2-3 3-4 7-10 8-23 10-12 12-13

exact bonds :

9-19

normalized bonds :

4-5 4-6 5-9 6-7 7-8 8-9 16-17 16-21 17-18 18-19 19-20 20-21

G1:C,O,S

G2:O,N,X,Ak

Match level :

1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 9:Atom
 10:Atom 12:Atom 13:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS
 23:CLASS

L1 STRUCTURE UPLOADED

=> dis l1
 L1 HAS NO ANSWERS

The chemical structure shows a thienothiophene core substituted at the 2-position with a phenyl group (labeled G2) and at the 7-position with an amine linkage. The linkage consists of an alkylene group (Ak) attached to a nitrogen atom, which is part of a repeating unit $[G1]_{0-6}N$.

G1 C,O,S
G2 O,N,X,Ak

Structure attributes must be viewed using STN Express query preparation.

```
=> s 11 sam
L2          3 SEA SSS SAM L1

=> s 11 full
L3          89 SEA SSS FUL L1

=> file caplus

=> s 13
L4          5 L3

=> s 14 and pd<march 2000
    20658285 PD<MARCH 2000
        (PD<20000300)
L5          3 L4 AND PD<MARCH 2000

=> dis 15 1-3 bib abs hitstr

L5  ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN  1999:467219 CAPLUS
DN  131:237492
TI  Studies on disease-modifying antirheumatic drugs. IV. Synthesis of novel
    thieno[2,3-b: 5,4-c']dipyridine derivatives and their anti-inflammatory
    effect
AU  Baba, Atsuo; Mori, Akira; Yasuma, Tsuneo; Unno, Satoko; Makino, Haruhiko;
    Sohda, Takashi
CS  Pharmaceutical Research Division, Takeda Chemical Industries, Ltd., Osaka,
    532-8686, Japan
SO  Chemical & Pharmaceutical Bulletin (1999), 47(7), 993-999
    CODEN: CPBTAL; ISSN: 0009-2363
PB  Pharmaceutical Society of Japan
```

DT Journal

LA English

OS CASREACT 131:237492

AB The syntheses and anti-inflammatory activities of novel thieno[2,3-b]pyridine and thieno[2,3-b: 5,4-c']dipyridine derivs. are described. These compds. were designed by modification of the quinoline template of a new type of disease-modifying antirheumatic drug (DMARD), TAK-603, and prepared by the Friedlander reaction as a key reaction. Their anti-inflammatory effects were evaluated using an adjuvant arthritis rat model. Most of the compds. which included a diethylamino moiety in the side chain had potent anti-inflammatory effect. In particular, Et 2-(diethylaminomethyl)-4-(3,4-dimethoxyphenyl)thieno[2,3-b: 5,4-c']dipyridine-3-carboxylate exhibited more potent activity than TAK-603.

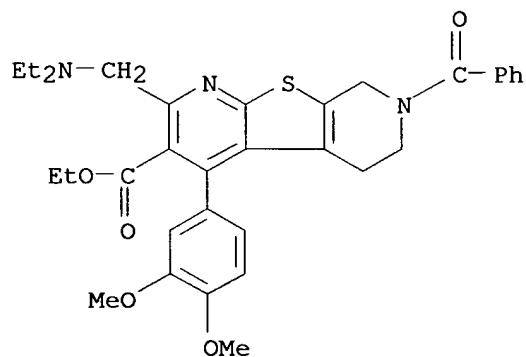
IT 199101-50-3P 199101-54-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(synthesis of novel thienodipyridine derivs. and their anti-inflammatory effect as disease-modifying antirheumatic drugs in relation to structure)

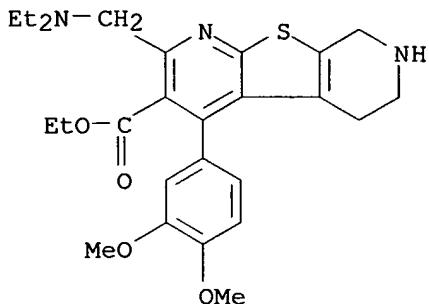
RN 199101-50-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 7-benzoyl-2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 199101-54-7 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

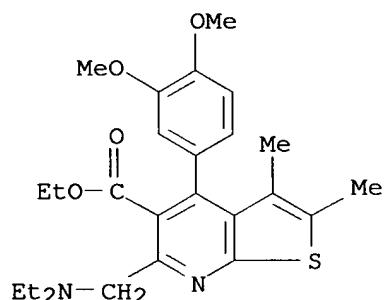


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 179327-75-4P 179327-83-4P 199101-56-9P
 199101-58-1P 199101-61-6P 199101-64-9P
 199102-03-9P 199102-12-0P 244298-81-5P
 244298-84-8P 244298-85-9P 244298-86-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis of novel thienodipyridine derivs. and their anti-inflammatory effect as disease-modifying antirheumatic drugs in relation to structure)

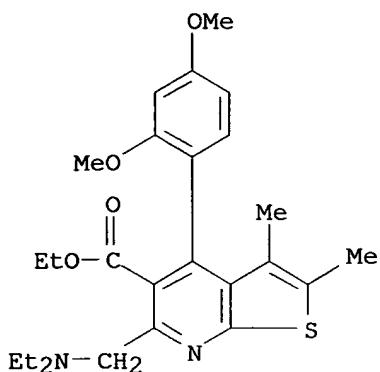
RN 179327-47-0 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



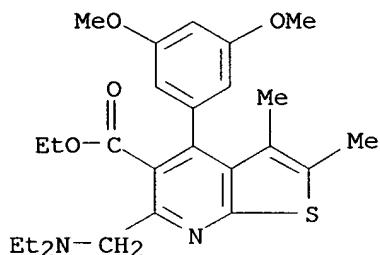
RN 179327-72-1 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(2,4-dimethoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



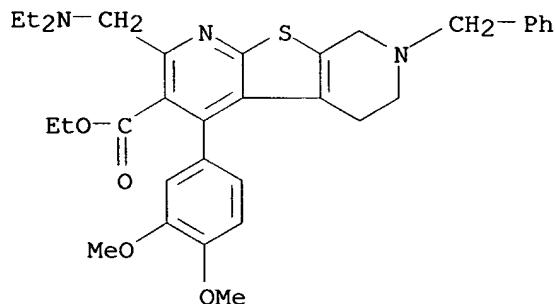
RN 179327-73-2 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(3,5-dimethoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



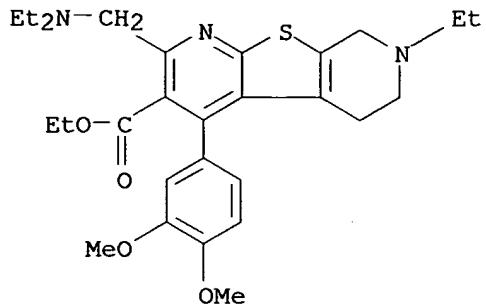
RN 179327-75-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



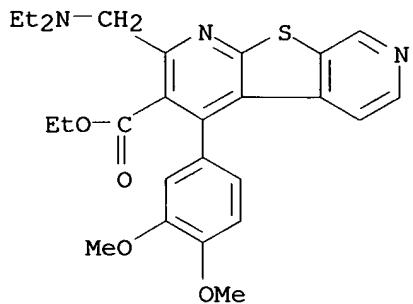
RN 179327-83-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-7-ethyl-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



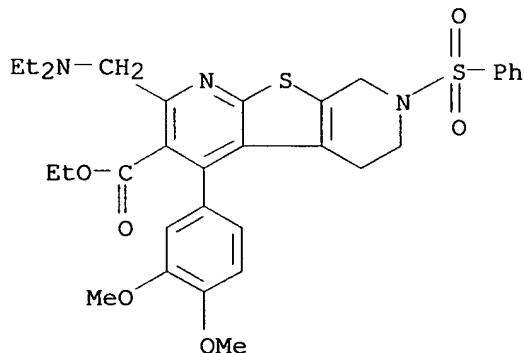
RN 199101-56-9 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



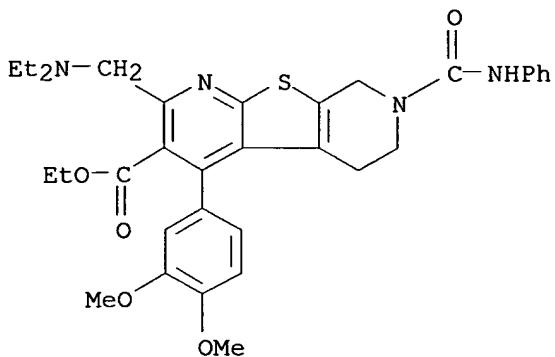
RN 199101-58-1 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylsulfonyl)-, ethyl ester (9CI) (CA INDEX NAME)



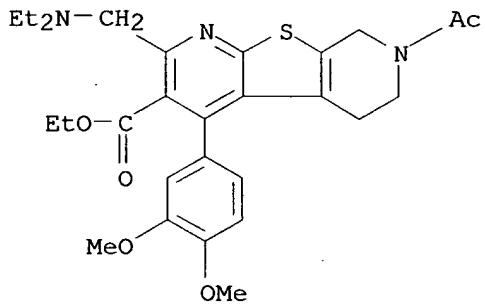
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CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



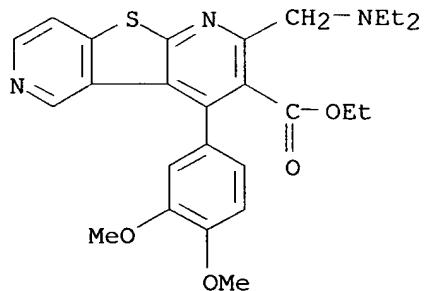
RN 199101-64-9 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 7-acetyl-2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



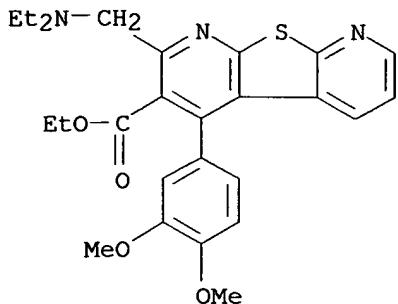
RN 199102-03-9 CAPLUS

CN Thieno[2,3-b:4,5-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



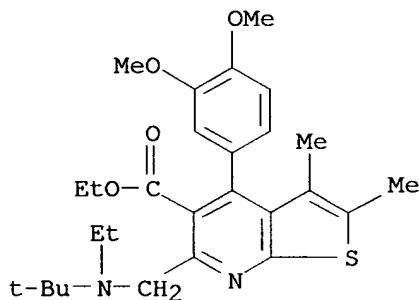
RN 199102-12-0 CAPLUS

CN Thieno[2,3-b:5,4-b']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



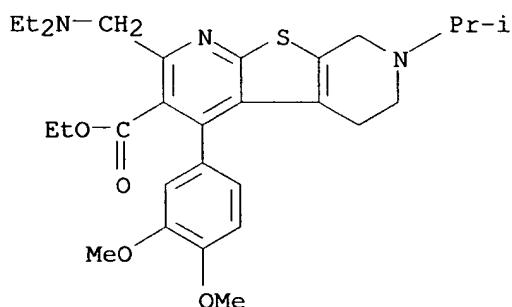
RN 244298-81-5 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 4-(3,4-dimethoxyphenyl)-6-[(1,1-dimethylethyl)ethylamino]methyl]-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



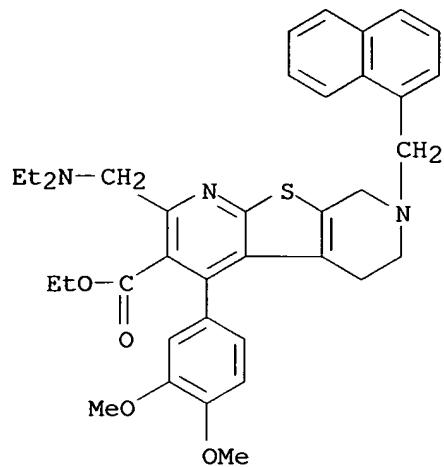
RN 244298-84-8 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(1-methylethyl)-, ethyl ester (9CI) (CA INDEX NAME)



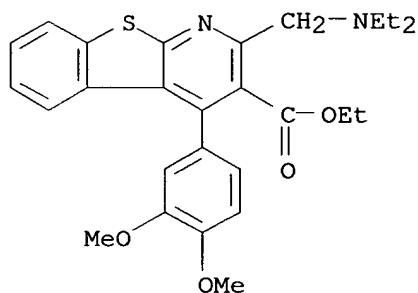
RN 244298-85-9 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(1-naphthalenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 244298-86-0 CAPLUS

CN [1]Benzothieno[2,3-b]pyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



IT 199102-01-7P 199102-02-8P 199102-06-2P

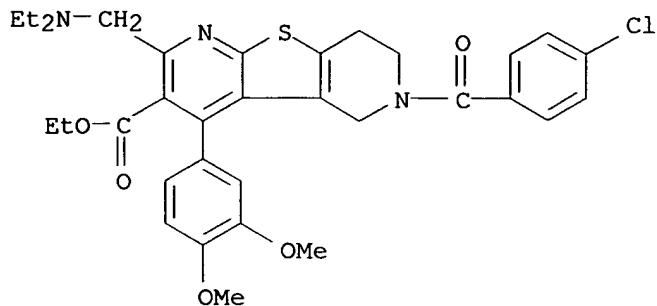
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

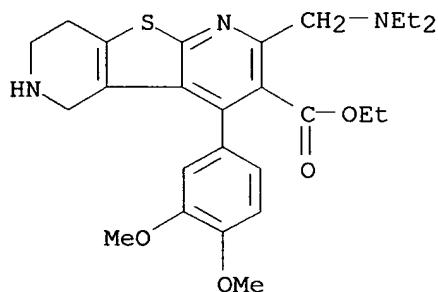
(synthesis of novel thienodipyridine derivs. and their anti-inflammatory effect as disease-modifying antirheumatic drugs in relation to structure)

RN 199102-01-7 CAPLUS

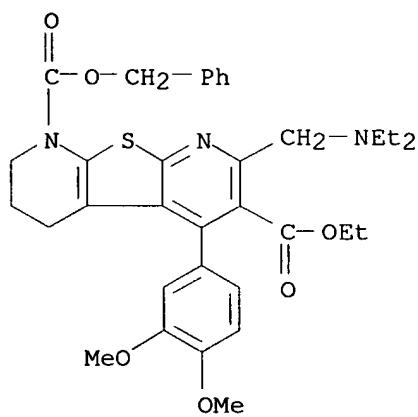
CN Thieno[2,3-b:4,5-c']dipyridine-3-carboxylic acid, 6-(4-chlorobenzoyl)-2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



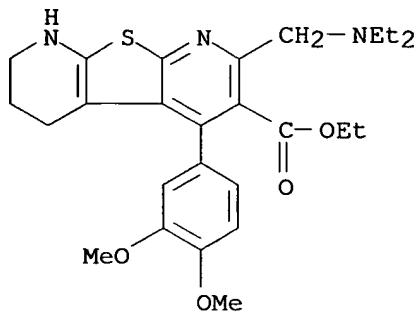
RN 199102-02-8 CAPLUS
 CN Thieno[2,3-b:4,5-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 199102-06-2 CAPLUS
 CN Thieno[2,3-b:5,4-b']dipyridine-1,6(2H)-dicarboxylic acid, 7-[(diethylamino)methyl]-5-(3,4-dimethoxyphenyl)-3,4-dihydro-, 6-ethyl 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)



RN 199102-09-5 CAPLUS
 CN Thieno[2,3-b:5,4-b']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:717922 CAPLUS

DN 128:13252

TI Preparation of thienodipyridinecarboxylates and analogs as drugs

IN Sohda, Takashi; Makino, Haruhiko; Baba, Atsuo

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 174 pp.

CODEN: PIXXD2

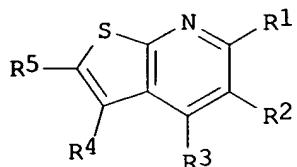
DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | WO 9740050 | A1 | 19971030 | WO 1997-JP1413 | 19970423 <-- |
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NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU,
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RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
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OS MARPAT 128:13252
 GI



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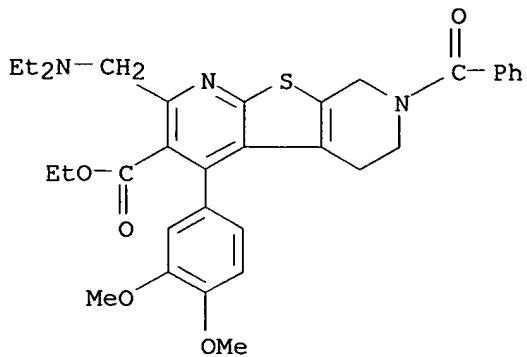
AB Title compds. [I; R1 = CH2ZR; R = (un)substituted NH2 or -heterocyclyl; R2 = (esterified) CO2H or halo; R3 = (un)substituted Ph; R4R5 = Z1NR6Z2; R6 = H, hydrocarbyl, acyl, etc.; Z = bond, O, S, (CH2)1-5, etc.; Z1,Z2 = atoms to complete a 3- to 5-membered chain] were prepared as antiinflammatories, bone resorption inhibitors, etc. Thus, 1-(4-chlorobenzoyl)-4-piperidone was cyclocondensed with 3,4-(MeO)2C6H3COCH2CN (preparation given) and the product cyclocondensed with ClCH2CHCH2CO2Et to give I [R2 = CO2Et, R3 = C6H3(OMe)-3,4, R4R5 = CH2CH2N(COC6H4Cl-4)CH2] (II; R1 = CH2Cl) which was aminated with Et2NH to give II (R1 = CH2NEt2). Data for biol. activity of I were given.

IT 199101-50-3P 199101-51-4P 199101-53-6P
 199101-54-7P 199101-55-8P 199101-56-9P
 199101-57-0P 199101-58-1P 199101-59-2P
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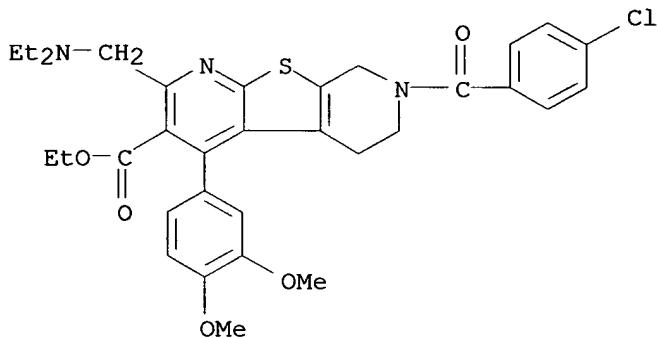
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of thienodipyridinecarboxylates and analogs as drugs)

RN 199101-50-3 CAPLUS

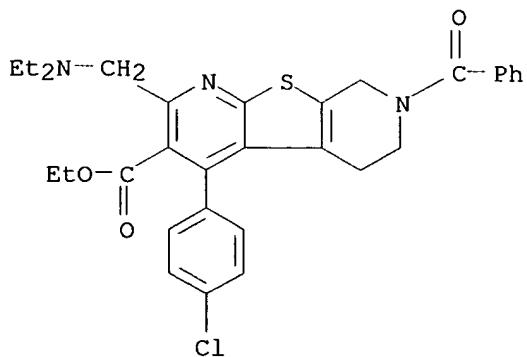
CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 7-benzoyl-2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 199101-51-4 CAPLUS
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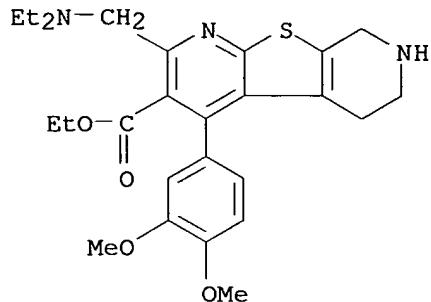


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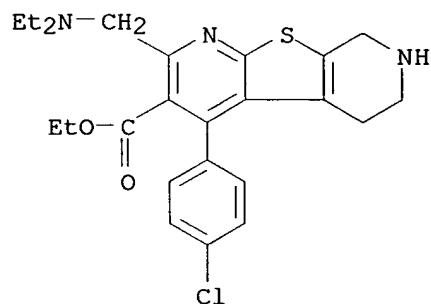
RN 199101-54-7 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



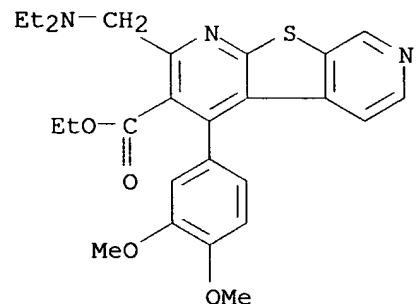
RN 199101-55-8 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 4-(4-chlorophenyl)-2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



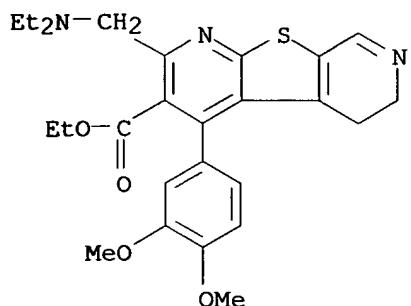
RN 199101-56-9 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



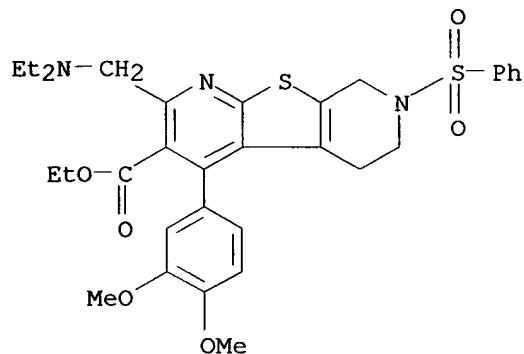
RN 199101-57-0 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



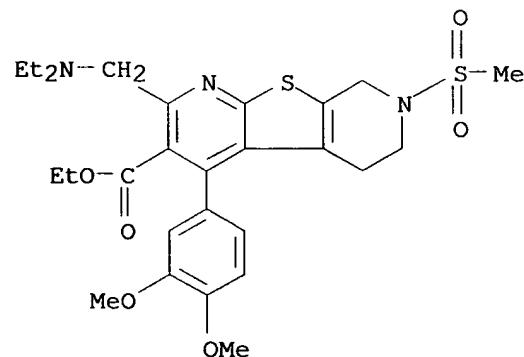
RN 199101-58-1 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylsulfonyl)-, ethyl ester (9CI) (CA INDEX NAME)



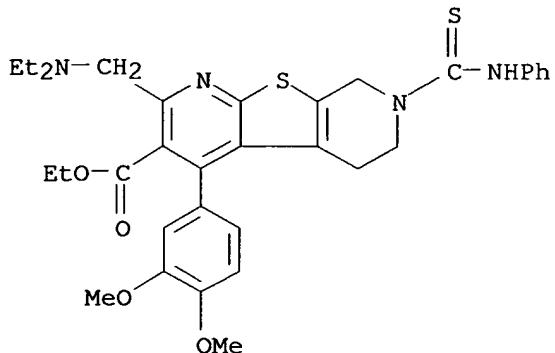
RN 199101-59-2 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(methylsulfonyl)-, ethyl ester (9CI) (CA INDEX NAME)



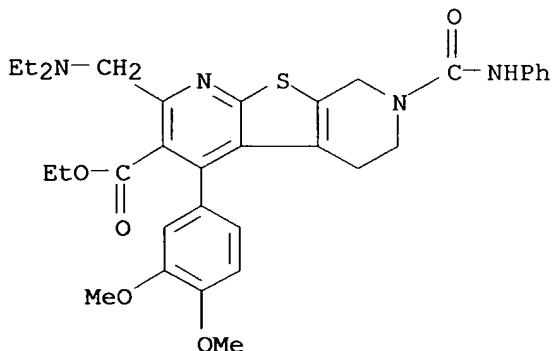
RN 199101-60-5 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-[(phenylamino)thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



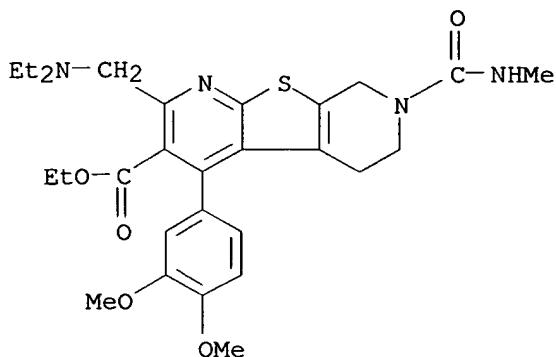
RN 199101-61-6 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

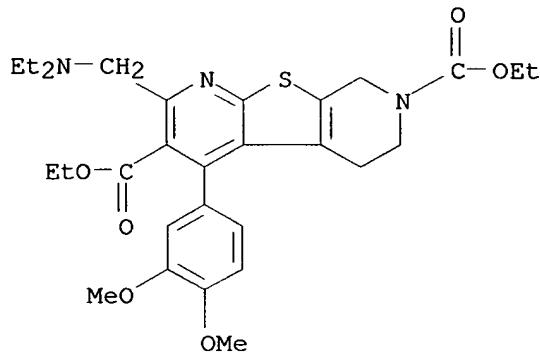


RN 199101-62-7 CAPLUS

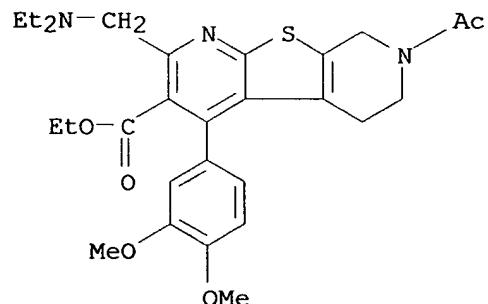
CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-[(methylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 199101-63-8 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3,7(6H)-dicarboxylic acid,
2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,8-dihydro-, diethyl
ester (9CI) (CA INDEX NAME)

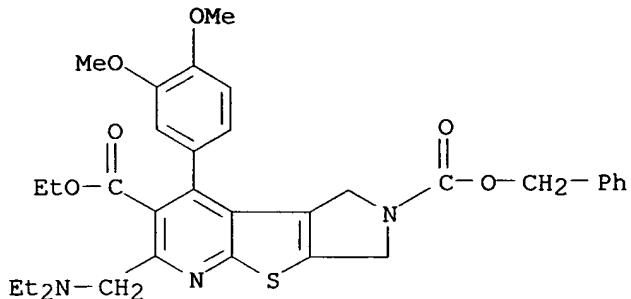
RN 199101-64-9 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 7-acetyl-2-
[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl
ester (9CI) (CA INDEX NAME)

RN 199101-65-0 CAPLUS

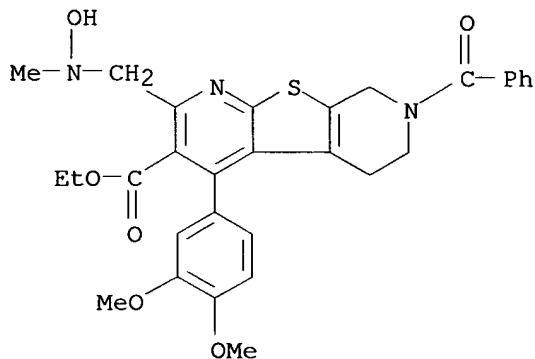
CN 6H-Pyrrolo[3',4':4,5]thieno[2,3-b]pyridine-3,6-dicarboxylic acid,

2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,7-dihydro-, 3-ethyl
6-(phenylmethyl) ester (9CI) (CA INDEX NAME)



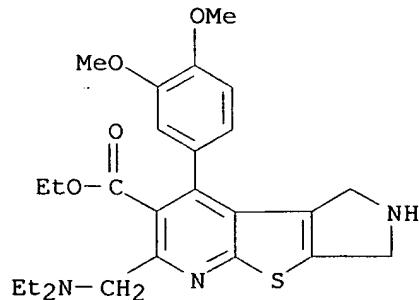
RN 199101-74-1 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 7-benzoyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-2-[(hydroxymethylamino)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



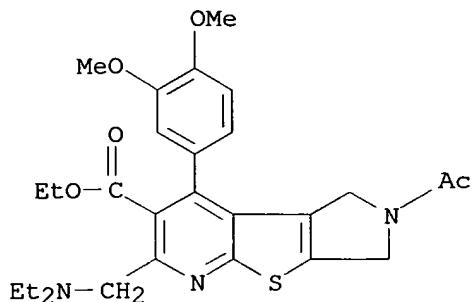
RN 199101-80-9 CAPLUS

CN 5H-Pyrrolo[3',4':4,5]thieno[2,3-b]pyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-6,7-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



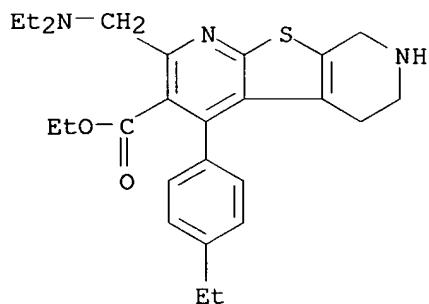
RN 199101-81-0 CAPLUS

CN 5H-Pyrrolo[3',4':4,5]thieno[2,3-b]pyridine-3-carboxylic acid,
6-acetyl-2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-6,7-dihydro-,
ethyl ester (9CI) (CA INDEX NAME)



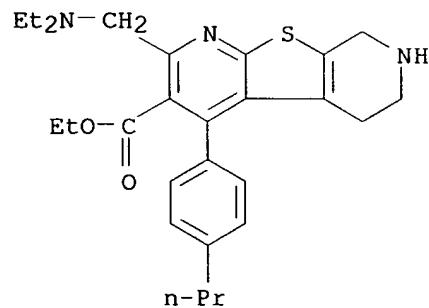
RN 199101-82-1 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(4-ethylphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



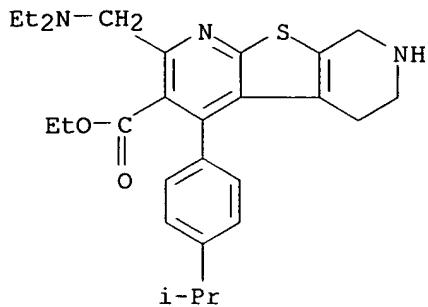
RN 199101-83-2 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-4-(4-propylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



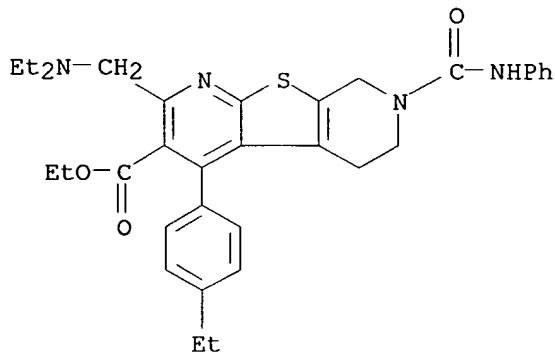
RN 199101-84-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-4-[4-(1-methylethyl)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



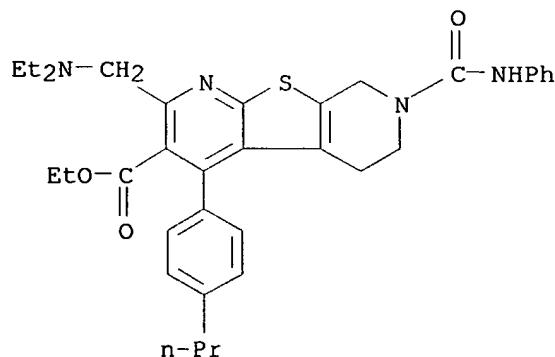
RN 199101-85-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(4-ethylphenyl)-5,6,7,8-tetrahydro-7-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



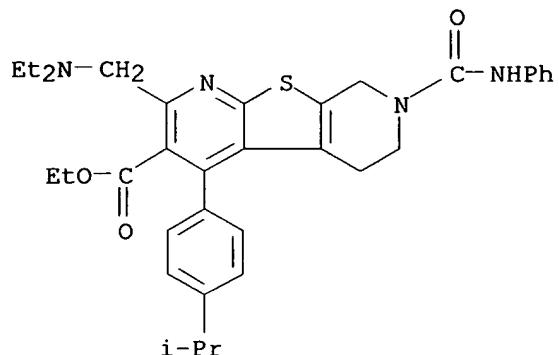
RN 199101-86-5 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-7-[(phenylamino)carbonyl]-4-(4-propylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



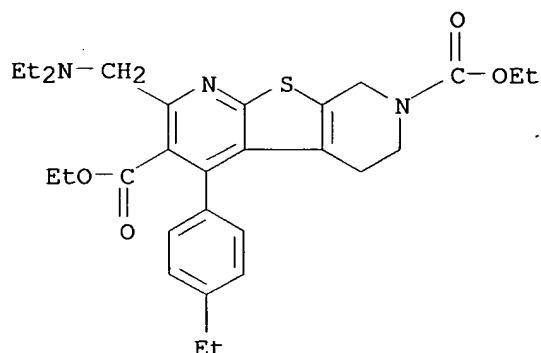
RN 199101-87-6 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-4-[4-(1-methylethyl)phenyl]-7-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



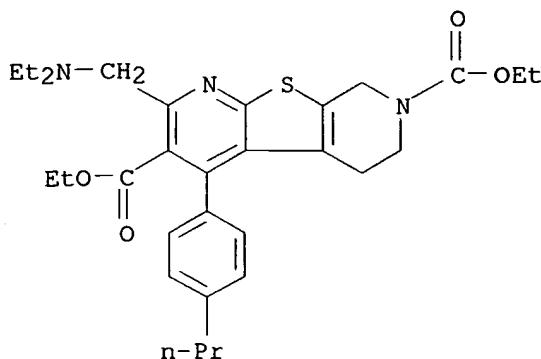
RN 199101-88-7 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3,7(6H)-dicarboxylic acid, 2-[(diethylamino)methyl]-4-(4-ethylphenyl)-5,8-dihydro-, diethyl ester (9CI) (CA INDEX NAME)

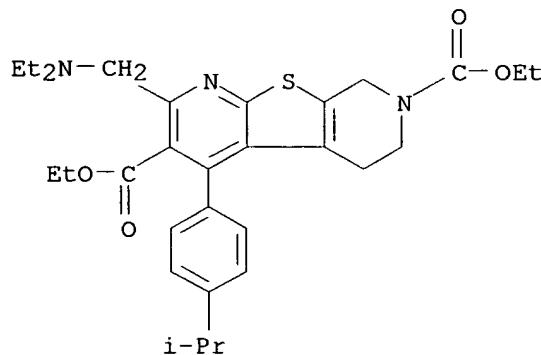


RN 199101-89-8 CAPLUS

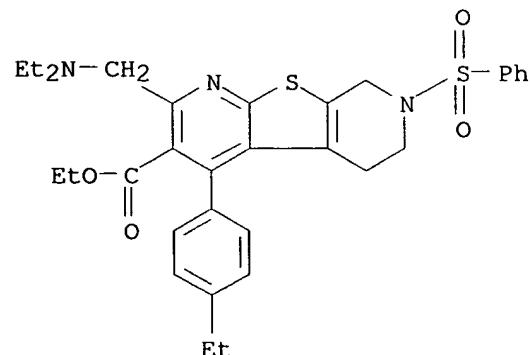
CN Thieno[2,3-b:5,4-c']dipyridine-3,7(6H)-dicarboxylic acid, 2-[(diethylamino)methyl]-5,8-dihydro-4-(4-propylphenyl)-, diethyl ester (9CI) (CA INDEX NAME)



RN 199101-90-1 CAPLUS

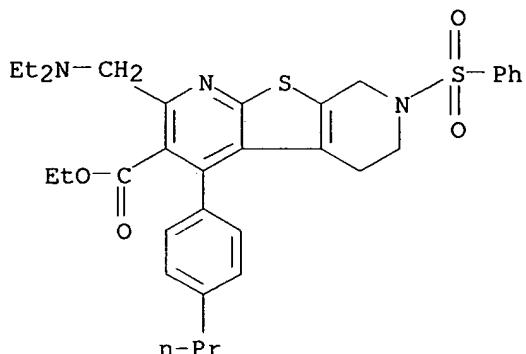
CN Thieno[2,3-b:5,4-c']dipyridine-3,7(6H)-dicarboxylic acid,
2-[(diethylamino)methyl]-5,8-dihydro-4-[4-(1-methylethyl)phenyl]-, diethyl
ester (9CI) (CA INDEX NAME)

RN 199101-91-2 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-
4-(4-ethylphenyl)-5,6,7,8-tetrahydro-7-(phenylsulfonyl)-, ethyl ester
(9CI) (CA INDEX NAME)

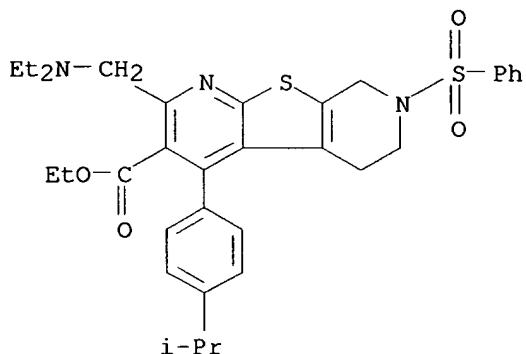
RN 199101-92-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-7-(phenylsulfonyl)-4-(4-propylphenyl)-, ethyl ester
(9CI) (CA INDEX NAME)



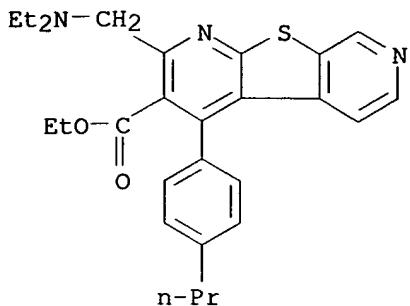
RN 199101-93-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-4-[4-(1-methylethyl)phenyl]-7-(phenylsulfonyl)-, ethyl ester (9CI) (CA INDEX NAME)

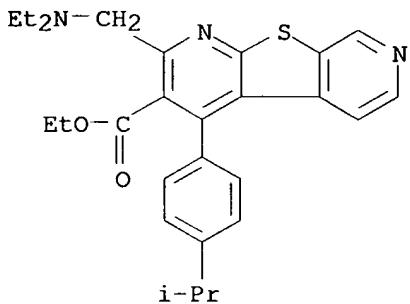


RN 199101-94-5 CAPLUS

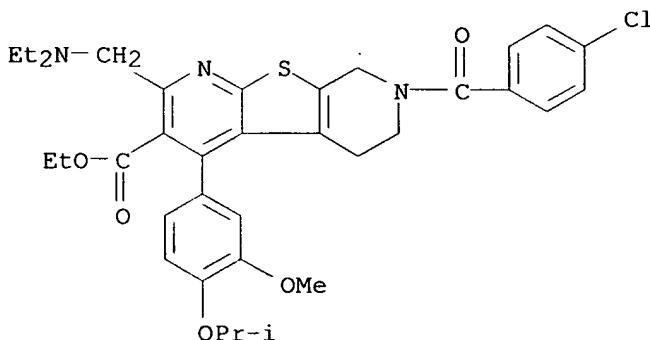
CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(4-propylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



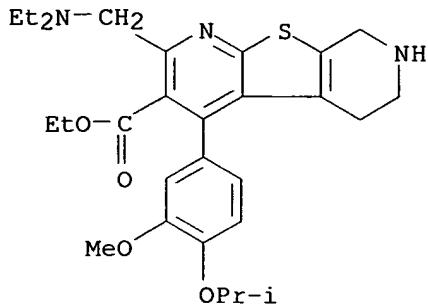
RN 199101-95-6 CAPLUS
 CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-[4-(1-methylethyl)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 199101-96-7 CAPLUS
 CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 7-(4-chlorobenzoyl)-2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-4-[3-methoxy-4-(1-methylethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)

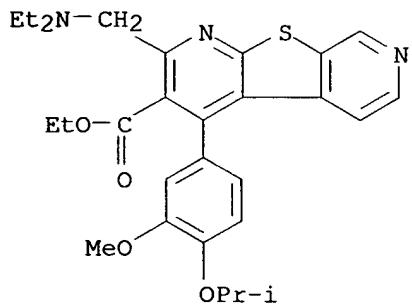


RN 199101-97-8 CAPLUS
 CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-4-[3-methoxy-4-(1-methylethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



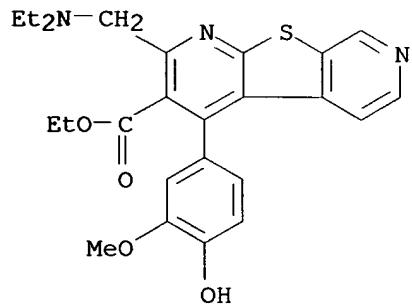
RN 199101-98-9 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-[3-methoxy-4-(1-methylethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



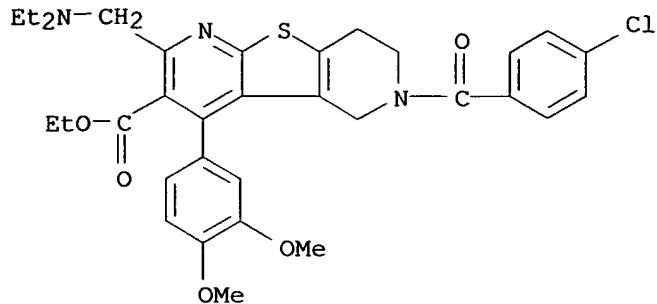
RN 199101-99-0 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(4-hydroxy-3-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

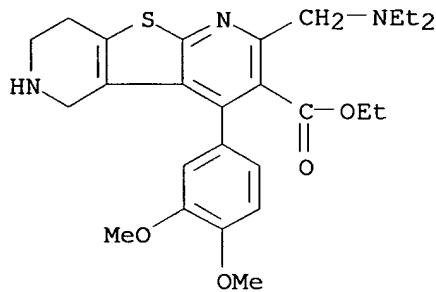


RN 199102-01-7 CAPLUS

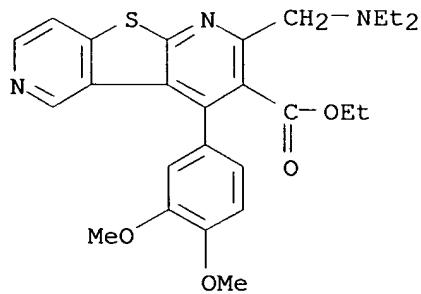
CN Thieno[2,3-b:4,5-c']dipyridine-3-carboxylic acid, 6-(4-chlorobenzoyl)-2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



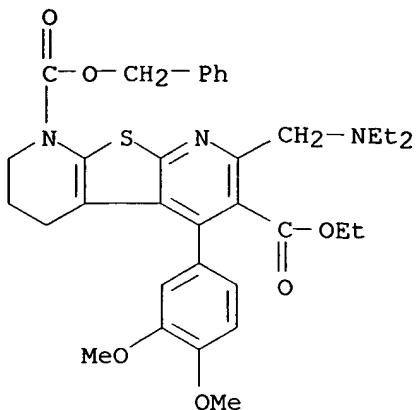
RN 199102-02-8 CAPLUS
 CN Thieno[2,3-b:4,5-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 199102-03-9 CAPLUS
 CN Thieno[2,3-b:4,5-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

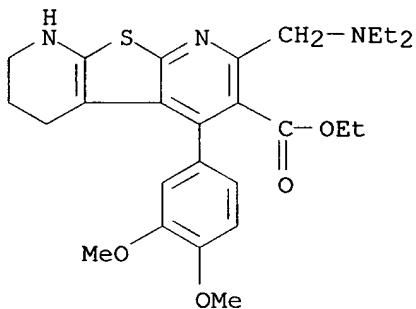


RN 199102-06-2 CAPLUS
 CN Thieno[2,3-b:5,4-b']dipyridine-1,6(2H)-dicarboxylic acid, 7-[(diethylamino)methyl]-5-(3,4-dimethoxyphenyl)-3,4-dihydro-, 6-ethyl 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)



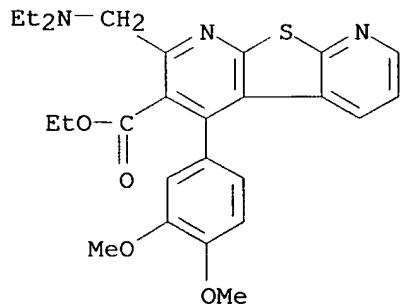
RN 199102-09-5 CAPLUS

CN Thieno[2,3-b:5,4-b']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



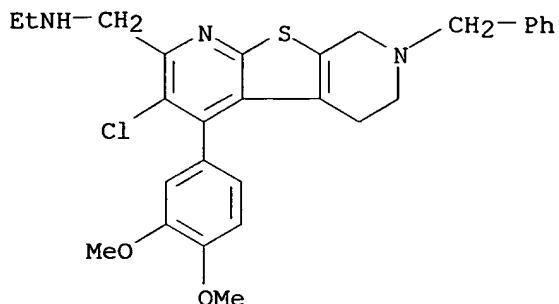
RN 199102-12-0 CAPLUS

CN Thieno[2,3-b:5,4-b']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



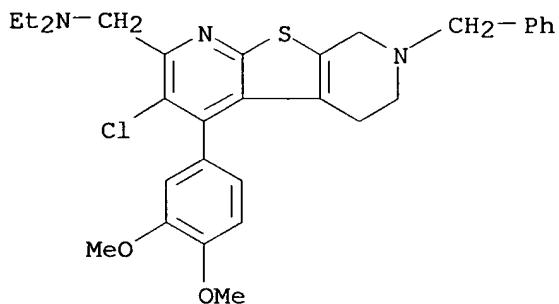
RN 199102-15-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-4-(3,4-dimethoxyphenyl)-N-ethyl-5,6,7,8-tetrahydro-7-(phenylmethyl)- (9CI) (CA INDEX NAME)



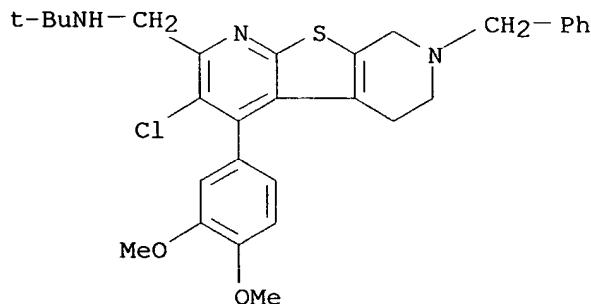
RN 199102-16-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-4-(3,4-dimethoxyphenyl)-N,N-diethyl-5,6,7,8-tetrahydro-7-(phenylmethyl)- (9CI) (CA INDEX NAME)



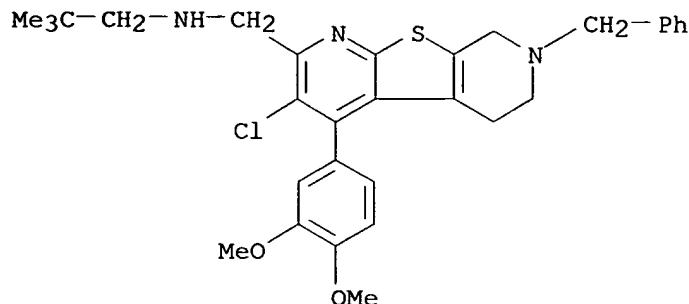
RN 199102-17-5 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-4-(3,4-dimethoxyphenyl)-N-(1,1-dimethylethyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)- (9CI) (CA INDEX NAME)



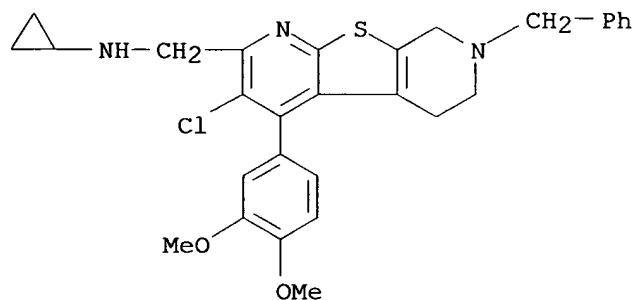
RN 199102-18-6 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-4-(3,4-dimethoxyphenyl)-N-(2,2-dimethylpropyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)- (9CI) (CA INDEX NAME)



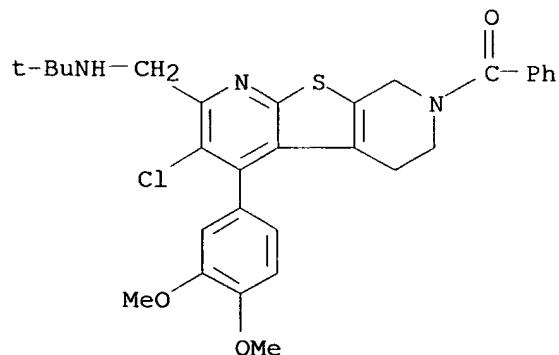
RN 199102-19-7 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-N-cyclopropyl-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)- (9CI) (CA INDEX NAME)



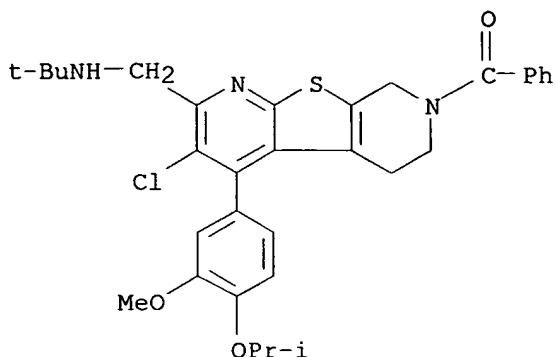
RN 199102-22-2 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 7-benzoyl-3-chloro-4-(3,4-dimethoxyphenyl)-N-(1,1-dimethylethyl)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



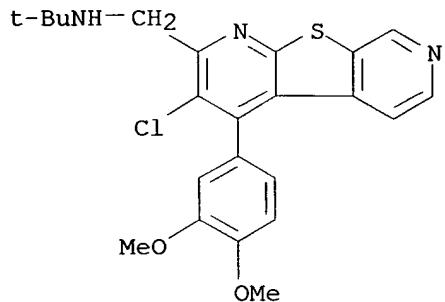
RN 199102-23-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 7-benzoyl-3-chloro-N-(1,1-dimethylethyl)-5,6,7,8-tetrahydro-4-[3-methoxy-4-(1-methylethoxy)phenyl]- (9CI) (CA INDEX NAME)



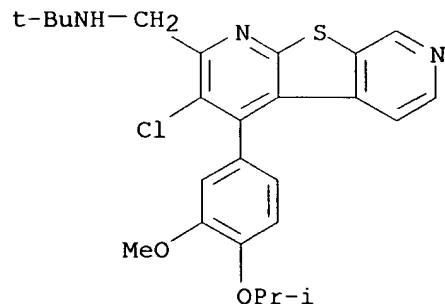
RN 199102-24-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-4-(3,4-dimethoxyphenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



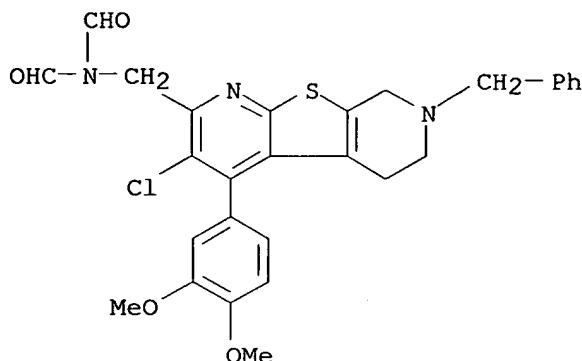
RN 199102-25-5 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-N-(1,1-dimethylethyl)-4-[3-methoxy-4-(1-methylethoxy)phenyl]- (9CI) (CA INDEX NAME)



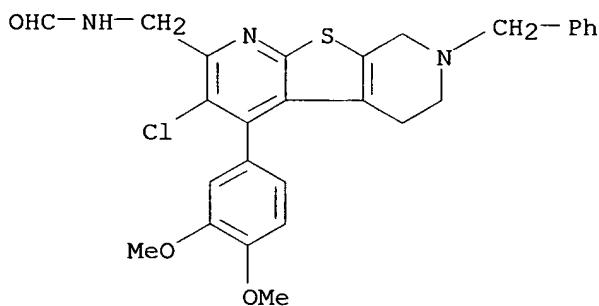
RN 199102-30-2 CAPLUS

CN Formamide, N-[(3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)thieno[2,3-b:5,4-c']dipyridin-2-yl)methyl]-N-formyl- (9CI) (CA INDEX NAME)



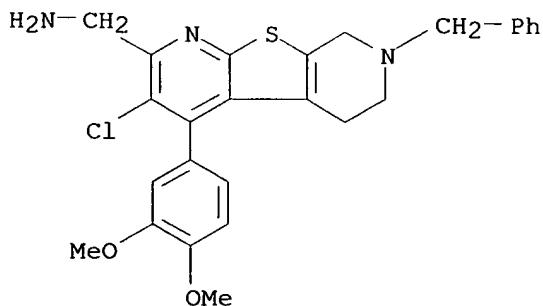
RN 199102-31-3 CAPLUS

CN Formamide, N-[3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)thieno[2,3-b:5,4-c']dipyridin-2-yl]methyl- (9CI) (CA INDEX NAME)



RN 199102-32-4 CAPLUS

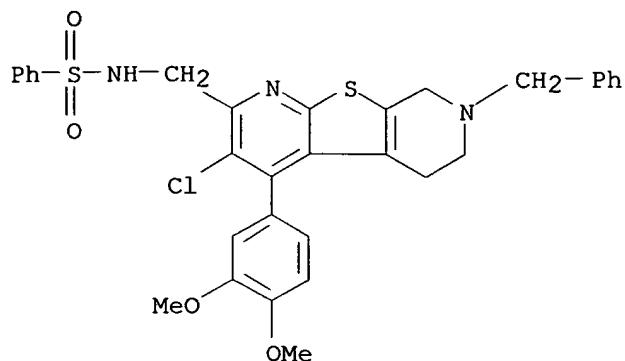
CN Thieno[2,3-b:5,4-c']dipyridine-2-methanamine, 3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 199102-33-5 CAPLUS

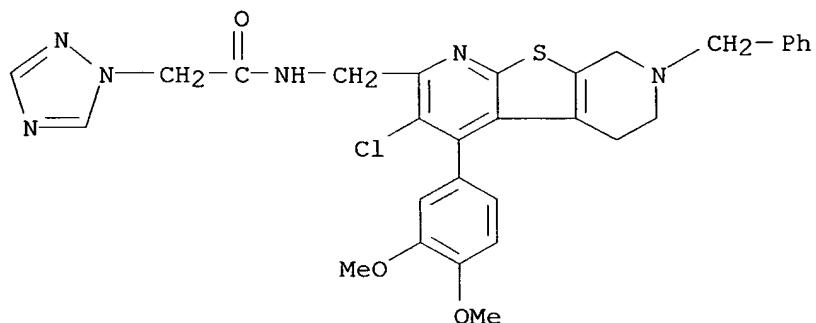
CN Benzenesulfonamide, N-[3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)thieno[2,3-b:5,4-c']dipyridin-2-yl]methyl-

(9CI) (CA INDEX NAME)



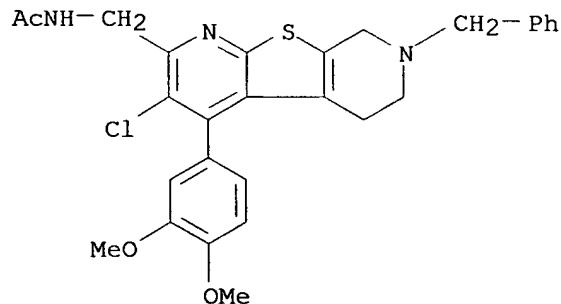
RN 199102-34-6 CAPLUS

CN 1H-1,2,4-Triazole-1-acetamide, N-[[3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)thieno[2,3-b:5,4-c']dipyridin-2-yl]methyl]- (9CI) (CA INDEX NAME)



RN 199102-35-7 CAPLUS

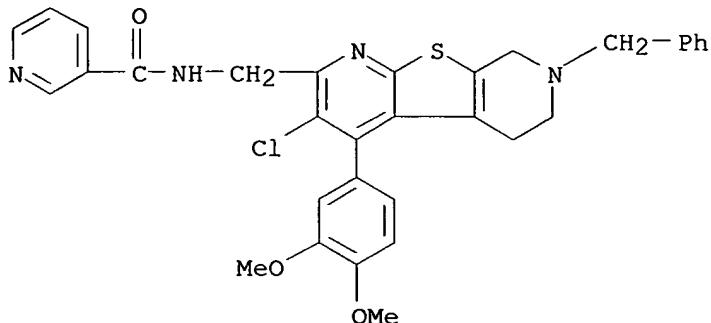
CN Acetamide, N-[[3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)thieno[2,3-b:5,4-c']dipyridin-2-yl]methyl]- (9CI) (CA INDEX NAME)



RN 199102-36-8 CAPLUS

CN 3-Pyridinecarboxamide, N-[[3-chloro-4-(3,4-dimethoxyphenyl)-5,6,7,8-

tetrahydro-7-(phenylmethyl)thieno[2,3-b:5,4-c']dipyridin-2-yl)methyl]-
(9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:466919 CAPLUS

DN 125:114583

TI Thienopyridine or thienopyrimidine derivatives and their use

IN Sohda, Takashi; Makino, Haruhiko; Baba, Atsuo

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 85 pp.

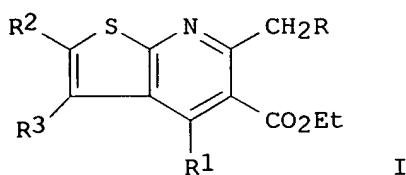
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------------|----------|-----------------|--------------|
| PI | WO 9614319 | A1 | 19960517 | WO 1995-JP2271 | 19951107 <-- |
| | W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, KG,
KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU,
SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
NE, SN, TD, TG | | | | |
| | CA 2202985 | AA | 19960517 | CA 1995-2202985 | 19951107 <-- |
| | AU 9538158 | A1 | 19960531 | AU 1995-38158 | 19951107 <-- |
| | AU 699354 | B2 | 19981203 | | |
| | EP 791000 | A1 | 19970827 | EP 1995-936112 | 19951107 <-- |
| | EP 791000 | B1 | 20021002 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE | | | | |
| | CN 1162958 | A | 19971022 | CN 1995-196119 | 19951107 <-- |
| | HU 77348 | A2 | 19980330 | HU 1997-2020 | 19951107 <-- |
| | AT 225351 | E | 20021015 | AT 1995-936112 | 19951107 |
| | JP 08225577 | A2 | 19960903 | JP 1995-290204 | 19951108 <-- |
| | US 5747486 | A | 19980505 | US 1995-571915 | 19951227 <-- |
| | NO 9702043 | A | 19970625 | NO 1997-2043 | 19970502 <-- |
| | FI 9701974 | A | 19970618 | FI 1997-1974 | 19970507 <-- |
| PRAI | JP 1994-273801 | A | 19941108 | | |
| | JP 1994-320055 | A | 19941222 | | |
| | WO 1995-JP2271 | W | 19951107 | | |
| OS | MARPAT | 125:114583 | | | |
| GI | | | | | |



AB This invention provides anti-inflammatory agents, particularly agents for treating arthritis, and bone resorption inhibiting agents containing a thienopyridine derivative I (R = Et₂N, triazolyl, imidazolyl, pyrrolidinyl, piperidino, morpholino, etc.; R₁ = Ph, di- and trimethoxyphenyl; R₂ = R₃ = Me, R₂R₃ = CH₂SCH₂CH₂, CH₂NR₄CH₂CH₂, R₄ = Me, Et, Pr, benzyl, etc.).

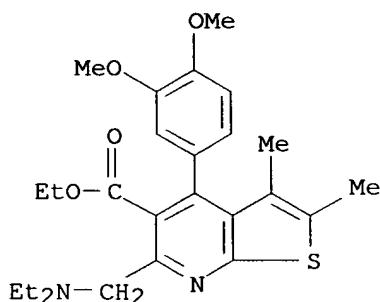
IT

179327-47-0P 179327-52-7P 179327-53-8P
 179327-56-1P 179327-59-4P 179327-60-7P
 179327-61-8P 179327-64-1P 179327-65-2P
 179327-66-3P 179327-69-6P 179327-70-9P
 179327-71-0P 179327-72-1P 179327-73-2P
 179327-74-3P 179327-75-4P 179327-82-3P
 179327-83-4P 179327-84-5P 179327-85-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of antiinflammatory, antiarthritic and antiosteoporotic thienopyrimidines)

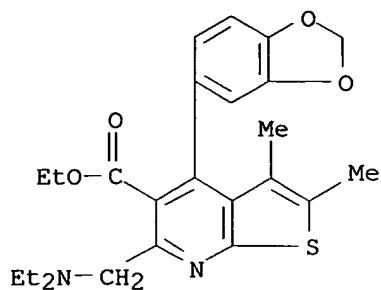
RN 179327-47-0 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

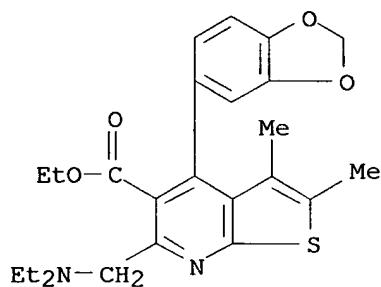


RN 179327-52-7 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 4-(1,3-benzodioxol-5-yl)-6-[(diethylamino)methyl]-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



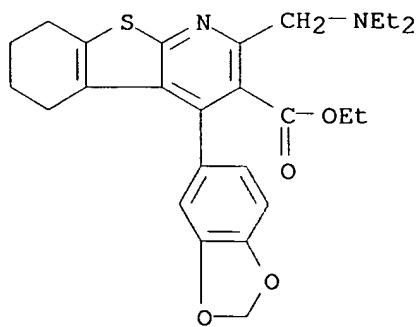
RN 179327-53-8 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 4-(1,3-benzodioxol-5-yl)-6-[(diethylamino)methyl]-2,3-dimethyl-, ethyl ester, monohydrochloride (9CI)
(CA INDEX NAME)

● HCl

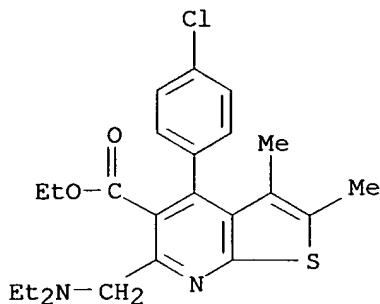
RN 179327-56-1 CAPLUS

CN [1]Benzothieno[2,3-b]pyridine-3-carboxylic acid, 4-(1,3-benzodioxol-5-yl)-2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

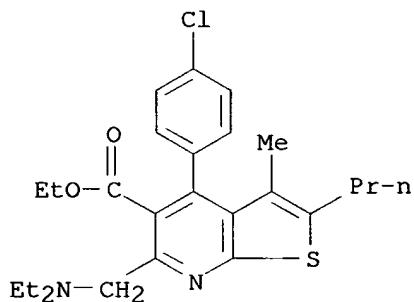


RN 179327-59-4 CAPLUS

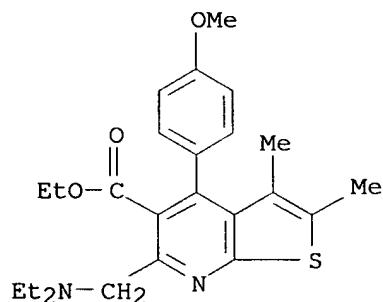
CN Thieno[2,3-b]pyridine-5-carboxylic acid, 4-(4-chlorophenyl)-6-[(diethylamino)methyl]-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



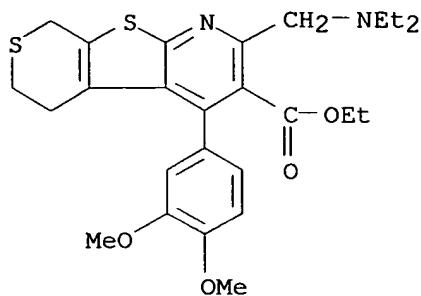
RN 179327-60-7 CAPLUS
 CN Thieno[2,3-b]pyridine-5-carboxylic acid, 4-(4-chlorophenyl)-6-[(diethylamino)methyl]-3-methyl-2-propyl-, ethyl ester (9CI) (CA INDEX NAME)



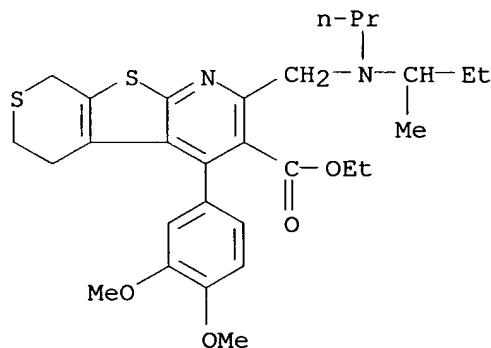
RN 179327-61-8 CAPLUS
 CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(4-methoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



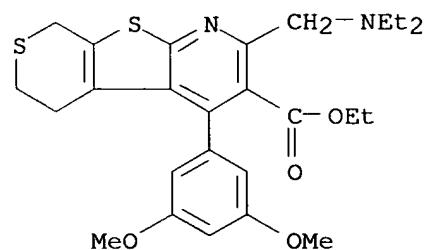
RN 179327-64-1 CAPLUS
 CN 6H-Thiopyrano[4',3':4,5]thieno[2,3-b]pyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,8-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 179327-65-2 CAPLUS

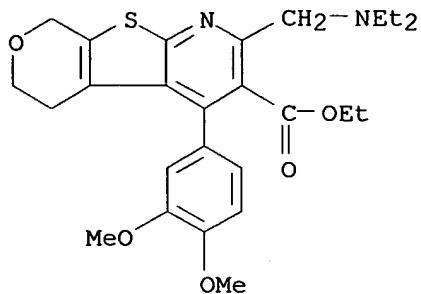
CN 6H-Thiopyrano[4',3':4,5]thieno[2,3-b]pyridine-3-carboxylic acid,
4-(3,4-dimethoxyphenyl)-5,8-dihydro-2-[(1-methylpropyl)propylamino]methyl
]-, ethyl ester (9CI) (CA INDEX NAME)

RN 179327-66-3 CAPLUS

CN 6H-Thiopyrano[4',3':4,5]thieno[2,3-b]pyridine-3-carboxylic acid,
2-[(diethylamino)methyl]-4-(3,5-dimethoxyphenyl)-5,8-dihydro-, ethyl ester
(9CI) (CA INDEX NAME)

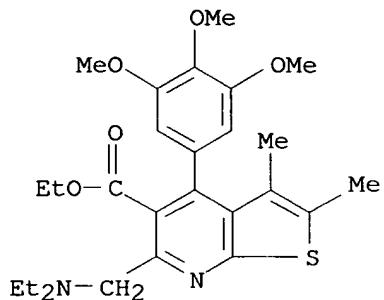
RN 179327-69-6 CAPLUS

CN 6H-Pyrano[4',3':4,5]thieno[2,3-b]pyridine-3-carboxylic acid,
2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,8-dihydro-, ethyl ester
(9CI) (CA INDEX NAME)



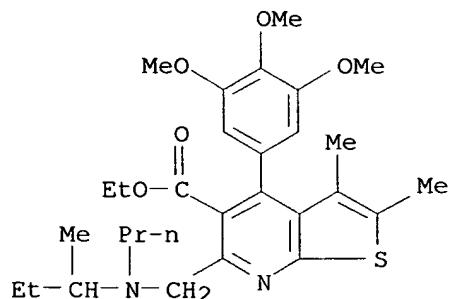
RN 179327-70-9 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-2,3-dimethyl-4-(3,4,5-trimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



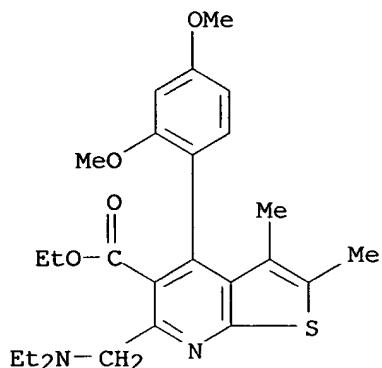
RN 179327-71-0 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 2,3-dimethyl-6-[(1-methylpropyl)propylamino]methyl-4-(3,4,5-trimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



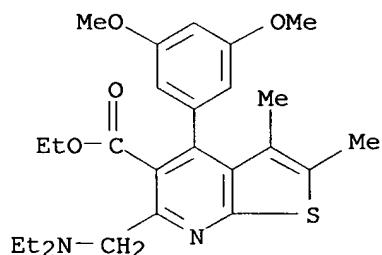
RN 179327-72-1 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(2,4-dimethoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



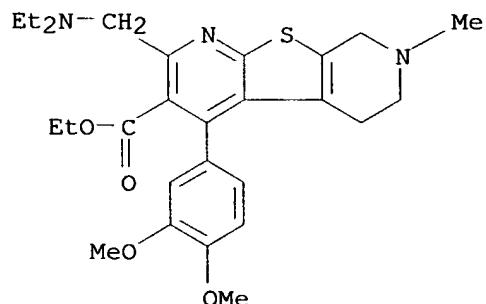
RN 179327-73-2 CAPLUS

CN Thieno[2,3-b]pyridine-5-carboxylic acid, 6-[(diethylamino)methyl]-4-(3,5-dimethoxyphenyl)-2,3-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



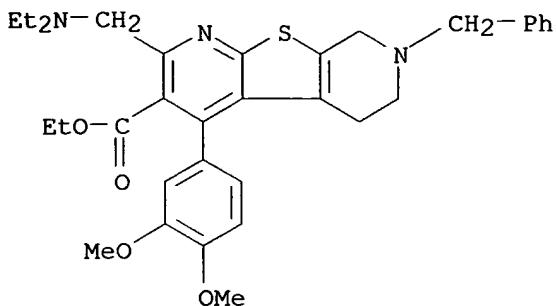
RN 179327-74-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



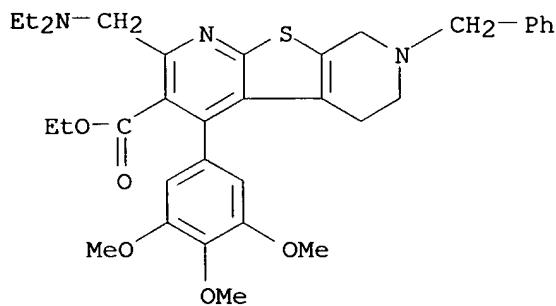
RN 179327-75-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



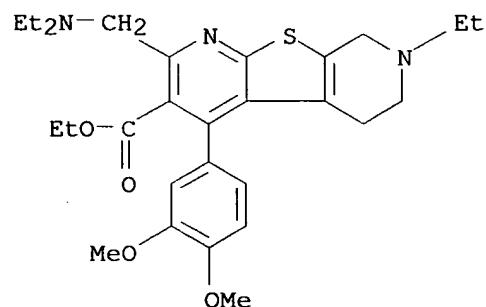
RN 179327-82-3 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-5,6,7,8-tetrahydro-7-(phenylmethyl)-4-(3,4,5-trimethoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



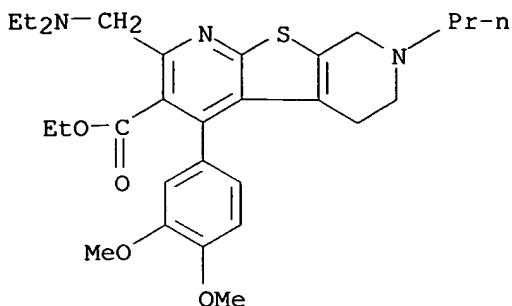
RN 179327-83-4 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-7-ethyl-5,6,7,8-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



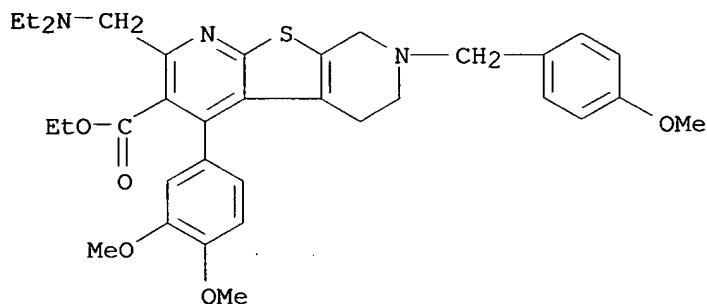
RN 179327-84-5 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-propyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 179327-85-6 CAPLUS

CN Thieno[2,3-b:5,4-c']dipyridine-3-carboxylic acid, 2-[(diethylamino)methyl]-4-(3,4-dimethoxyphenyl)-5,6,7,8-tetrahydro-7-[(4-methoxyphenyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



=> s 14 not 15

L6 2 L4 NOT L5

=> dis 1-2 bib abs

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:173611 CAPLUS

DN 138:221576

TI Process for preparation of thienopyridine derivatives as antiinflammatory agents

IN Tawada, Hiroyuki; Nagata, Toshiaki; Tanaka, Takahiro; Hanaoka, Tadashi

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|---|----------|-----------------|----------|
| PI | WO 2003018590 | A1 | 20030306 | WO 2002-JP8445 | 20020822 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, | | | |

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
 UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
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 PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG
 JP 2003137889 A2 20030514 JP 2002-241876 20020822
 PRAI JP 2001-254598 A 20010824
 OS MARPAT 138:221576
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

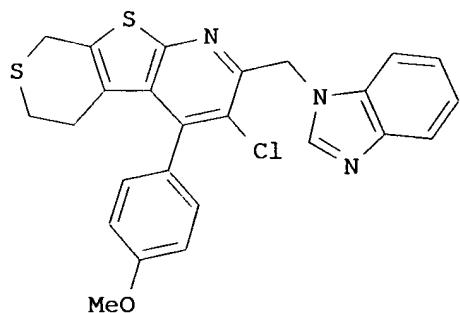
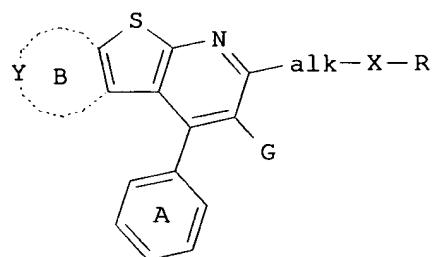
AB This invention pertains to prep method of thienopyridine derivs. I and II [wherein G = halo, OH, (un)substituted amino, alkyl, or alkoxy; X = (un)substituted alkylene; n = 2-4; ring A = (un)substituted Ph; ring B = (un)substituted 5-8 membered ring without a nitrogen atom] and salts thereof. For example, compound III was prepared in a multi-step synthesis comprising a ring closure reaction in good yield. I are useful as antiinflammatory agents for inhibition of bone resorption and production of cytokine (do data). Formulations containing I as an active ingredient were also described.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:661430 CAPLUS
 DN 135:226889
 TI Preparation of thienopyridines as antiinflammatory agents
 IN Yasuma, Tsuneo; Baba, Atsuo; Makino, Haruhiko; Aoki, Isao; Nagata, Toshiaki
 PA Takeda Chemical Industries, Ltd., Japan
 SO PCT Int. Appl., 195 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|------------------|----------|
| PI | WO 2001064685 | A2 | 20010907 | WO 2001-JP1483 | 20010228 |
| | WO 2001064685 | A3 | 20020808 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| | TW 591031 | B | 20040611 | TW 2001-90103874 | 20010221 |
| | CA 2397165 | AA | 20010907 | CA 2001-2397165 | 20010228 |
| | AU 2001035985 | A5 | 20010912 | AU 2001-35985 | 20010228 |
| | JP 2001316390 | A2 | 20011113 | JP 2001-54421 | 20010228 |

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| EP 1259515 | B1 | 20041110 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| BR 2001008840 | A | 20021217 | BR 2001-8840 | 20010228 |
| NZ 520155 | A | 20030630 | NZ 2001-520155 | 20010228 |
| AT 282042 | E | 20041115 | AT 2001-908123 | 20010228 |
| PT 1259515 | T | 20050228 | PT 2001-908123 | 20010228 |
| ES 2227139 | T3 | 20050401 | ES 2001-1908123 | 20010228 |
| ZA 2002005145 | A | 20030904 | ZA 2002-5145 | 20020626 |
| US 2003130517 | A1 | 20030710 | US 2002-204593 | 20020822 |
| US 6653476 | B2 | 20031125 | | |
| NO 2002004107 | A | 20020927 | NO 2002-4107 | 20020828 |
| HK 1048120 | A1 | 20050506 | HK 2003-100300 | 20030113 |
| US 2004054183 | A1 | 20040318 | US 2003-662165 | 20030903 |
| PRAI JP 2000-105770 | A | 20000229 | | |
| WO 2001-JP1483 | W | 20010228 | | |
| US 2002-204593 | A3 | 20020822 | | |
| OS MARPAT 135:226889 | | | | |
| GI | | | | |



AB The title compds. [I; G = halo, OH, (un)substituted NH₂, etc.; alk = alkylene; X = O, (un)oxidized S, (CH₂)_q (*q* = 0-5); R = (un)substituted NH₂, (un)substituted heterocyclyl; B = (un)substituted Y-containing 5-8 membered ring (no N atom in the ring); Y = O, (un)oxidized S, C(:S), etc.; A = (un)substituted Ph], useful as anti-inflammatory drugs, particularly as remedies for arthritis, were prepared and formulated. E.g., a 3-step synthesis of II was given. The compds. I exhibited efficacy in

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suppressing the footpad swelling in rats (data given).

| => log y | | | |
|--|------------------|---------------|--|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION | |
| FULL ESTIMATED COST | 22.91 | 184.45 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION | |
| CA SUBSCRIBER PRICE | -3.65 | -3.65 | |

STN INTERNATIONAL LOGOFF AT 09:29:43 ON 21 NOV 2005